

Title (en)  
Derivatives of dihydro- and tetrahydroquinoline as a medicinal antioxydants

Title (de)  
Dihydro- und Tetrahydrochinolinderivate als medizinisches Antioxydants

Title (fr)  
Dérivés de dihydro- et tétrahydroquinoléine en tant qu'antioxydant médical

Publication  
**EP 0995743 A1 20000426 (FR)**

Application  
**EP 99402624 A 19991022**

Priority  
FR 9813306 A 19981023

Abstract (en)

Dihydro- and tetrahydro-quinoline derivatives (I) are new. Dihydro- and tetrahydro-quinoline derivatives of formula (I) and their acid or base addition salts are new. R1 = H or a group of formula (i); A = H or -B'NZ1Z2; B' = 1-6C alkylene; Z1, Z2 = H, alkyl, 3-8C cycloalkyl or optionally substituted aryl; or NZ1Z2 = heterocycloalkyl or heteroaryl (optionally substituted); R2, R3 = alkyl, 3-8C cycloalkyl, heterocycloalkyl, optionally substituted aryl, optionally substituted heteroaryl, cycloalkylalkyl, heterocycloalkylalkyl, optionally substituted arylalkyl, optionally substituted heteroarylalkyl or aminoalkyl (optionally substituted on N with 1 or 2 alkyl, cycloalkyl, aryl or arylalkyl); or R2 + R3 = form with C of quinoline, 3-8C cycloalkyl or heterocycloalkyl (optionally substituted with alkyl, cycloalkyl, cycloalkylalkyl, aryl or arylalkyl); R40 = alkyl, 2-6C alkenyl, 2-6C alkynyl (all optionally substituted), H, Q or -V'-Q; V' = 1-6C alkylene, 2-6C alkenylene or 2-6C alkynylene; Q = 3-8C cycloalkyl, aryl, heterocycloalkyl, heteroaryl (all optionally substituted); R5, R41 = H; or R5 + R41 = bond; R6-R9 = H, halo, alkyl, 3-8C cycloalkyl or -OW'; W' = aryl, heteroaryl, arylalkyl, heteroarylalkyl (all optionally substituted), H, alkyl, acyl, 3-8C cycloalkyl or heterocycloalkyl; alkyl = 1-6C; aryl = phenyl, naphthyl or biphenyl; heterocycloalkyl = partially unsaturated 4- to 11-membered mono- or bi-cyclic ring containing 1-6 N, S or O; heteroaryl = aromatic or partially aromatic 4- to 11-membered mono- or bi-cyclic ring containing 1-6 N, S or O; substituted aryl, arylalkyl = aryl or arylalkyl substituted with at least one halo, alkyl, 1-6C alkoxy, 1-6C perhaloalkyl, amino (optionally substituted with 1 or 2 alkyl), CN, carboxy, 1-6C alkoxycarbonyl, aminocarbonyl (optionally substituted with 1 or 2 alkyl on N), nitro or OH; substituted alkyl, alkenyl, alkynyl and cycloalkyl = alkyl, alkenyl, alkynyl and cycloalkyl substituted with at least one OH, 1-6C alkoxy, 1-6C alkylthio, amino (optionally substituted with 1 or 2 alkyl), carboxy, nitro, CN, 1-6C alkoxycarbonyl or aminocarbonyl (optionally substituted with 1 or 2 alkyl on N); substituted heterocycloalkyl, heterocycloalkylalkyl, heteroaryl, heteroarylalkyl = heterocycloalkyl, heterocycloalkylalkyl, heteroaryl, heteroarylalkyl substituted with at least one halo, alkyl, 1-6C alkoxy, 1-6C perhaloalkyl, amino (optionally substituted with 1 or 2 alkyl), CN, carboxy, 1-6C alkoxycarbonyl, aminocarbonyl (optionally substituted with 1 or 2 alkyl on N), nitro, OH or oxo; and provided that R6-R9 are not all H and at least one of R6-R9 is -OW', that R2 and R3 are alkyl when R6-R9 are H, alkyl, alkoxy, R41 and R5 form a bond, R40 is other than H or alkyl; when (I) has one OH and R40 is other than H; when (I) has one methoxy and R40 is other than hydroxyalkyl; and (I) is other than 7-methoxy-2,2-diphenyl-1,2-dihydroquinoline. An Independent claim is also included for the preparation of (I).

Abstract (fr)

Composés de formule générale (I): <IMAGE> dans laquelle : R1 représente un hydrogène ou <IMAGE> dans lequel A est tel que défini dans la description. R2 et R3 représentent indépendamment un alkyle, cycloalkyle, hétérocycloalkyle, aryle éventuellement substitué, hétéroaryle éventuellement substitué, cycloalkylalkyle, hétérocycloalkylalkyle, arylalkyle éventuellement substitué, hétéroarylalkyle éventuellement substitué, aminoalkyle éventuellement substitué, ou bien, R2 et R3 forment ensemble avec l'atome de carbone qui les porte un cycloalkyle ou un hétérocycloalkyle monocyclique substitué ou non. R40 représente un hydrogène, ou un groupement choisi parmi alkyle éventuellement substitué, alkényle éventuellement substitué, alkynyle éventuellement substitué, ou un groupement Q ou -V-Q dans lesquels V représente un alkylène, alkénylène, ou alkynylène, et Q représente un cycloalkyle éventuellement substitué, aryle éventuellement substitué, hétérocycloalkyle éventuellement substitué, ou hétéroaryle éventuellement substitué, R41 et R5 forment ensemble une liaison, ou représentent chacun un hydrogène, R6, R7, R8 et R9 représentent indépendamment un hydrogène, un halogène, un alkyle, cycloalkyle (C3-C8), ou -OW dans lequel W est tel que défini dans la description.

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IPC 8 full level  
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